HC PLEDGE: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ BLOCK: \_\_\_\_ DATE: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**A NEW INDUSTRIAL REVOLUTION**

Read pages 608 to 613, and answer all of the questions below regarding the passage.

1. List a least four natural resources found in the West which helped American industries to grow. (p. 608) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

2. What method was invented in the 1850s to make stronger steel products? What city became America’s largest steel producer? (p. 608)

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3. What important fuel source was discovered in Titusvillle, PA in 1859? (p. 609) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

4. How did Railroad Companies improve service for passengers during the late 19th Century? (p. 609)

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5. Describe one unfair business practice railroads engaged in which hurt ordinary farmers. (p. 609)

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6. Define the term ***patent*** - \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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6B. What kind of a person would be awarded a patent by the government? (p. 610) -\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

7. List at least four (4) inventions which were credited to Thomas Alva Edison, “The Wizard of Menlo Park.” Which 1882 invention did most of his products rely on as an energy source? (p. 610)

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8. Who was responsible for creating the first trans-Atlantic telegraph cable, in 1866? (p. 611)

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8B. Which invention and inventor improved the communications industry even farther in 1876? (p. 611)

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9. What was the name of the company which combined the communications services of both devices into one corporation? (p. 611)

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10. What method did American automobile manufacturer Henry Ford use in order to mass produce the automobile? (p. 613)

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**PART TWO. INVENTORS AND INVENTIONS.** Matching. Identify the invention which each of the men below was responsible for contributing.

**A. Wilbur Wright B. Henry Ford C. Granville Woods**

**D. George Eastman E. Christopher Sholes F. Jan Matzeliger**

**G. Alexander Graham Bell H. Samuel Morse I. Cyrus Field**

**J. Thomas Alva Edison K. Elijah Otis L. Charles Duryea**

\_\_\_\_\_1. With his brother, Frank, he created the first ever gasoline powered automobile in the US.

\_\_\_\_\_2. With his brother, Orville, he flew the first self-propelled airplane at Kitty Hawk, NC.

\_\_\_\_\_3. He first used the assembly line method to mass produce the Model-T, or “Tin Lizzy.”

\_\_\_\_\_4. He was the man who invented the first sure proof set of brakes for an elevator.

\_\_\_\_\_5. He devised a way to send telegram messages between moving trains.

\_\_\_\_\_6. He was the inventor of the first “box camera,” which he named Kodak – a made up term.

\_\_\_\_\_7. He was the inventor of the typewriter – a secretaries tool, rarely seen these days.

\_\_\_\_\_8. This African-American inventor came up with the first shoe-making machine.

\_\_\_\_\_9. He laid the first trans-Atlantic telegram cable, allowing speedy communication with Europe.

\_\_\_\_\_10. The inventor of the telephone, he exclaimed: “Mr. Watson, come here, I want you!”

\_\_\_\_\_11. “The Wizard of Menlo Park” invented the incandescent light bulb, the phonograph, and the motion picture machine.

\_\_\_\_\_12. He invented the telegraph in the 1844s, along with a coded language to send messages.